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NOTICE OF ALLOWANCE AND FEE(S) DUE

38107

7590

08/19/2010

PHILIPS INTELLECTUAL PROPERTY & STANDARDS P. O. Box 3001 BRIARCLIFF MANOR, NY 10510 EXAMINER

SETH, MANAV

ART UNIT PAPER NUMBER

2624 DATE MAILED: 08/19/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/596,148	12/20/2006	Thomas Buelow	PHDE030407US	2799	

TITLE OF INVENTION: IMAGE SEGMENTATION IN A VOLUME DATA SET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/19/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new co	of m	aintenance fees will condence address; and	be m	nailed to the current of the current	correspondence address as ate "FEE ADDRESS" for
		ock 1 for any change of address)		Fee(s	Transmittal, This	certific	cate cannot be used fo	domestic mailings of the r any other accompanying t or formal drawing, must
P. O. Box 3001	7590 08/19 ELLECTUAL PRO MANOR, NY 10510	OPERTY & STAN		I here State addre trans	eby certify that this	Fee(s)	of Mailing or Transur Transmittal is being cient postage for first SSUE FEE address a 273-2885, on the day	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	A	TTOR	NEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	11/19/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	;				
SETH, N	MANAV	2624	382-173000					
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	or agents OR, alter (2) the name of a seregistered attorney 2 registered patent listed, no name wil	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is isted, no name will be printed.						
	less an assignee is ident h in 37 CFR 3.11. Comp	A TO BE PRINTED ON I ified below, no assignee pletion of this form is NO	•	he par g an a CITY	tent. If an assignee ssignment. and STATE OR CO	UNTR	RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Corp	oratio	n or other private grou	up entity Government
a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 4	b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	us. See 37 CFR 1.27.		_	_		TY status. See 37 CF	
NOTE: The Issue Fee and terest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte ttes Patent and Trademark	d from anyone other the Office.	nan th	e applicant; a registe	ered at	torney or agent; or the	assignee or other party in
Authorized Signature					Date			
Typed or printed name					Registration No.			
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P. O. Box 3001		ART UNIT	PAPER NUMBER		
BRIARCLIFF MA	BRIARCLIFF MANOR, NY 10510				
		DATE MAILED: 08/19/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 741 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 741 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/596,148	BUELOW ET AL.					
Notice of Allowability	Examiner	Art Unit					
	MANAV SETH	2624					
The MAILING DATE of this communication appea. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 06/01/2010.	(OR REMAINS) CLOSED or other appropriate comm GHTS . This application is	n this application. If not included unication will be mailed in due cours	se. THIS				
-							
2. The allowed claim(s) is/are <u>1-20</u> .							
3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☑ Examiner's	nformal Patent Application Summary (PTO-413), /Mail Date s Amendment/Comment s Statement of Reasons for Allowand	ce				

Application/Control Number: 10/596,148 Page 2

Art Unit: 2624

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on June 01, 2010 has been considered and entered in

full.

2. Applicant's amendments to the claims have been considered and are persuasive;

therefore all the rejections on the respective claims have been withdrawn.

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than

the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

applicant's attorney/agent of record, Mr. Anthony Del Zoppo, Registration No. 51,606, on

08/13/2010., Examiner's amendment:

In The Claims

(a). The following changes to the claims have been approved by the examiner and agreed

upon by applicant:

(i) Replace the subject matter of preamble of claim 9 as presented in the amendment

filed on 06/01/2010 with:

Examiner's amendment: "A non-transitory computer-readable storage medium containing instructions, that when executed on a processor of a computer, segment an object of interest in a data set, wherein the data set comprises at least a first image and a second image, wherein the processor performs the following operation when the instructions are

Allowable Subject Matter

Reasons of Allowance:

executed on the processor:".

4. Claims 1-20 are allowed.

The following is an examiner's statement of reasons of allowance:

The closest prior art of record (Pekar et al, U.S. Patent Publication No. 2006/0159341A1) does not teach "determining a first structure of the object of interest where the segmentation is unsuccessful in the first image; and segmenting the first structure in a first region of the second image for determining a second segmentation result" as recited in claims 1, 6 and 9, in combination with other limitations. Therefore claims 1, 6 and 9 are allowed. All other claims depending on claims 1, 6 and 9 are allowable at least by dependency on claims 1, 6 and 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2624

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Manav Seth whose telephone number is (571) 272-7456.

The examiner can normally be reached on Monday to Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vikkram Bali, can be reached on (571) 272-7415. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-

217-9197 (toll-free).

/Manav Seth/

Primary Examiner, Art Unit 2624

August 14, 2010